

20021012.qrp v02_n707.qrl.20021012

Date: Sat, 12 Oct 2002 19:03:07 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2707

QRP-L Digest 2707

Topics covered in this issue include:

- 1) [137897] Mother Earth, Wind and Wires
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- 2) [137898] FS: Ham Radio for Apple II
by Larry East <w1hue@amsat.org>
- 3) [137899] Re: Parts for Heathkit AT-1!
by William R Colbert <w5xe@juno.com>
- 4) [137900] RE: Half-Wave Tuning Measurements
by "KD5NWA" <KD5NWA@mbayona.com>
- 5) [137901] Re: K-1 vs. Norcal Sierra
by "Dave Ek" <ekdave@earthlink.net>
- 6) [137902] [Personals] Mate WTD
by "Brad Hernlem" <alihernlem@hotmail.com>
- 7) [137903] Re: Tuner Schematics
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- 8) [137904] Nor' Easter for sale
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- 9) [137905] Battery Charger Progress
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- 11) [137907] Re: [Apology]
by "P. Ermisch" <ermisch@usa.net>
- 12) [137908] R-M/20 Changing Xmit Freq
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- 13) [137909] Pull up RFC
by "Richard Johnson" <richard_johnson@credence.com>
- 14) [137910] Elecraft KAT100 ATU Released
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 15) [137911] Re: RM-20 power out without steroids
by na5n@zianet.com
- 16) [137912] CQ B00?
by Steve Smith <sigcom@juno.com>
- 17) [137913] Re: Half-Wave Tuning Measurements
by Alex <kr1st@amsat.org>
- 18) [137914] Re: Mother Earth, Wind and Wires
by Alex <kr1st@amsat.org>
- 19) [137915] Re: Elecraft KAT100 ATU Released

- by Paul Womble <pwomble1@tampabay.rr.com>
- 20) [137916] Re: Battery Charger Progress
by "Mike Yetsko" <myetsko@insydesw.com>
- 21) [137917] End fed half wave (EFHW) and tuner
by Rick McKee <kc8aon@juno.com>
- 22) [137918] Re: Half-Wave Tuning Measurements
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 23) [137919] Re: OT: Tuner Schematics
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 24) [137920] 'Rocky' scores again...on the road...thanks to W0CH
by "Bill, N4QA" <n4qa@hotmail.com>
- 25) [137921] Wanted: Small Tube CW Transmitters
by "Alan Fryer" <N3BJ@hotmail.com>
- 26) [137922] Re: [Apology]
by Lloyd Lachow <llachow@yahoo.com>
- 27) [137923] Re: 1/2 Wave end fed wire
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 28) [137924] Nor' Easter Sold
by Jeff Grudin <grudin@vdb.com>
- 29) [137925] Fox - Winter Fox Hunt Teams.
by Bruce Rattray <rattray@gpfn.sk.ca>
- 30) [137926] Re: Age/Years a Ham
by George Gingell <k3tks@u1.abs.net>
- 31) [137927] Re: Pull up RFC
by "Leon Heller" <leon_heller@hotmail.com>
- 32) [137928] R-M/20 Beacon 14062.9 kHz
by Chuck Carpenter <w5usj@9plus.net>
- 33) [137929] Re: End fed half wave (EFHW) and tuner
by "Karl F. Larsen" <k5di@zianet.com>
- 34) [137930] Coax Advice
by Joseph Mikuckis <k3chp@erols.com>
- 35) [137931] Copying W1AW w/RM-20...or...gee, that 12 kHz tone is kinda high!
by "Bill, N4QA" <n4qa@hotmail.com>
- 36) [137932] Re: Coax Advice
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 37) [137933] Re: 'Rocky' scores again...on the road...thanks to W0CH
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 38) [137934] Worked all States 2002
by "Brian" <brian@iquest.net>
- 39) [137935] Re: Coax Advice
by Chris Cartwright <ccart@phideaux.com>
- 40) [137936] Re: Coax Advice
by "Michael Melland" <w9wis@charter.net>
- 41) [137937] RM-20 power out with & without steroids
by "Terres Family" <terresfm@ncia.net>
- 42) [137938] BIG TIME (a little OT)
by "Jay Henson" <aj4ay@worldnet.att.net>
- 43) [137939] New GDO...

- by Ed Tanton <n4xy@earthlink.net>
- 44) [137940] Trade/Forsale 38sps1 and St. Louis Transmatch
by Mercxx@aol.com
- 45) [137941] R-M/20 Beacon 14062.9 kHz -- QRT 1400z
by Chuck Carpenter <w5usj@9plus.net>
- 46) [137942] rotor question...
by Bruce Rattray <rattray@gpfn.sk.ca>
- 47) [137943] DC receiver module update
by "Leon Heller" <leon_heller@hotmail.com>
- 48) [137944] OT: Powder Coat your enclosers
by "John McClain" <digi2@earthlink.net>
- 49) [137945] Rock-Mite BC fix
by lhlousek <lhlousek@nvhbell.net>
- 50) [137946] Re: Coax Advice
by Hank Kohl <k8dd@arrl.net>

Date: Fri, 11 Oct 2002 15:01:30 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137897] Mother Earth, Wind and Wires
Message-ID: <3DA7200A.7DF4D35D@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A couple of weeks ago I was still wondering if I really needed to go through the trouble of installing a pulley system for my random wires. I'm glad I did. Mother nature provided (and still is) me with evidence that it is a good idea. The eye of tropical storm Kyle just passed at about 20 miles from here (Charleston, SC) and the wires are still in the trees. Even my #36 wire is still up there (knock on wood). The counterweight on one wire is moving 5 feet up and down continuously.

Btw, how dangerous is it to use wires that are moving in the wind? I mean in terms of static buildup. Am I better off waiting until the wires hang still?

Thanks and 73,
--Alex (KR1ST)

Date: Fri, 11 Oct 2002 12:59:15 -0600
From: Larry East <wlhue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [137898] FS: Ham Radio for Apple II

Message-ID: <5.1.0.14.2.20021011125639.022ab9f0@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Do you have an old Apple II computer? Would you like some Ham Radio software for it? If "yes", then check this out:

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1386801970&rd=1>

If no one wants it this time around, it goes in the dumpster!

(If you are not an "eBayer", contact me off-line.)

72,
Larry W1HUE/7

Date: Fri, 11 Oct 2002 13:04:36 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-1@lehigh.edu
Subject: [137899] Re: Parts gor Heathkit AT-1!
Message-ID: <20021011.130440.-329277.16.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There was an unbuilt AT-1, still in the original box on Ebay a few months ago - 6000+ dollars. There have been other AT-1's on other swap/sale lists for a far more reasonable amount. There was also an AC-1 about the same time, but don't remember what it went for except it was far more than the original 19.95 - I think it was. Extra coil and crystal extra.

Ray
"Politicians are like nappies. Both should be changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
SOC#78 ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS

Date: Fri, 11 Oct 2002 14:24:07 -0500
From: "KD5NWA" <KD5NWA@mbayona.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [137900] RE: Half-Wave Tuning Measurements
Message-ID: <NGBBJPBAOLKEABLLGGKBIEJKCFAA.KD5NWA@MBayona.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

While I agree with most of your points, there are lots of articles out there, that contradict the claim that this is the most efficient type of tuner, many warn that the "Super T" tuner can be all too easily be mistuned to give you a low SWR but low efficiency. Many of these articles also mention that the efficiency when properly tuned is in the high 90%, that's why I asked how were the measurements made (I have not received a reply yet) because all the figures seem awful low for all three types of tuners. A tuner running at 60% efficiency and a Kilowatt of power will start getting crispy after a while.

Cecil
KD5NWA

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of George, W5YR
Sent: Friday, October 11, 2002 1:32 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Half-Wave Tuning Measurements

Denny, your efficiency figures for the "Super T" tuner - not familiar with it - seem very low. I use a pair of MFJ 989C T-network tuners and their efficiency both at QRP and QRO levels is far higher than 30% to 62%.

I do not believe that your data support a general denigration of the T-network design. It is the most widely used commercially available tuner architecture because it affords

- o the widest tuning range of complex load impedance for reasonable, economical component sizes
- o the widest frequency range with a given selection of components
- o the lowest cost
- o overall a higher efficiency than other configurations

You might want to re-examine your Super T tuner configuration and make sure that nothing is awry.

As a general comment, most tuners have difficulties with either very low or very high load impedances. Your data mirrors that with highest efficiencies at the 680 ohm level. It would be interesting to try a 10 ohm load where you would probably find that the efficiency drops quite a bit. Some of my antennas present a 10-15 ohm real component to the tuners which they handle with ease and with no evident serious loss in efficiency.

Many small tuners suffer excessive loss due to low inductor Q, frequently made worse by enclosing the coil in a small metal enclosure. That is one drawback to some of the popular small MFJ tuners that place the ends of the coil within about 1/4" or less of the top and bottom of the cabinet.

Another major source of loss is poorly designed and implemented internal baluns. Many are 4:1 voltage designs which are usually inappropriate for the general case of tuning a balanced line to a multi-band dipole antenna. Even the best of 4:1 baluns designed for 50 ohms and 200 ohms resistive begin to show increasing loss and lack of the "4:1" ratio as the load departs from 200 ohms resistive.

A common error with baluns is to regard them as simple transformers. This viewpoint can lead to all sorts of conflicting and confusing consequences. They are *transmission line transformers* and the "turns ratio" concept does not apply as it does with conventional transformers.

Sorry this turned into more pulpit thumping, but I did want to speak up for the T-network as probably the least complex and expensive tuner design offering the most performance.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 Icom IC-765 #2349 Icom IC-756 PRO #2121

Dennis Payton wrote:

>

> Recently, when putting together a self-contained 30-meter rig to take on a
> trip, I didn't have room for a full-size tuner. Since I plan to use it
> mostly with half-wave antennas anyways, I decided to try the simple
parallel

> tuned circuit from Joe Everhart's Rainbow Tuner. I'd never used it before
so

> took some measurements to determine its limitations and how it compares to
> my Super Tee and Z-Match tuners. The results were a bit surprising.

>

> Using a pot, I found it would tune from about 700 ohms to 7K ohms, so I

got

> out some fixed resistors and turned on the scope. Transmitting 1.5 watts
 > into 680 ohm, 1K, 2.7K, and 5.1K resistances, I determined the following
 > efficiencies:

	RB	Z	ST
> 680	- 84%	- 73%	- 62%
> 1K	- 83%	- 68%	- 59%
> 2.7K	- 78%	- 42%	- 40%
> 5.1K	- 66%	- 30%	- 30%

> It looks like the parallel tuned circuit is much more efficient than the
 > Z-Match and Super Tee, and all of them lose efficiency as impedance rises.
 > Now I'm wondering about antenna length - maybe I should always try to add
 > enough length to give me less than 2K impedance.

> Disclaimer - I'm not antenna savvy and the tuners I used are pocket-size
 > homebrew. I wouldn't bet my life on these conclusions!

> Also, I'm having ISP problems, so if someone responds to this privately I
 > may not receive it.

> Denny Payton
 > Auburn, IN

Date: Fri, 11 Oct 2002 13:31:11 -0600
 From: "Dave Ek" <ekdave@earthlink.net>
 To: <qrp-1@lehigh.edu>
 Subject: [137901] Re: K-1 vs. Norcal Sierra
 Message-ID: <002501c2715c\$c2a61770\$ac813389@NORTHROPJ6SJ50>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit

Jim,

I built and used a Wilderness Sierra prior to building and using the K-1 (a 4-band unit with the built-in ATU). Although the Sierra worked well, I prefer the K-1 for several reasons:

1) no swapping of band modules in the K1 (although you're limited to four bands in this case--no big deal as far as I'm concerned, but others may have different requirements)

2) higher power output--my K1 will put out a full five watts, and the power output is adjustable through the front panel controls and digital display. the Sierra's output is around 3W and must be adjusted by opening the case and tweaking a pot on the board.

3) more controllability: I can change the power output, keyer type/speed, sidetone pitch/volume, and quite a few other parameters using the LCD display and front panel buttons. Many of these things can be controlled in the KC2 keyer for the Sierra, but others cannot.

4) I absolutely love the built-in ATU in the K1.

5) My K1's receiver outperforms my Sierra. My subjective opinion is that the K1 is more sensitive. The Sierra's continuously-adjustable IF filter was nice, but the K1's three filter settings are adequate.

6) I found the tuning to be kinda fussy in the Sierra. I had a hard time getting the frequency set precisely where I wanted it to be. Not so much so in the K1. Plus, the Sierra seemed kind of sensitive to hand capacitance because of the big tuning cap. The K1 uses varactor tuning and seems more stable.

I liked my Sierra, but I love my K1! The K1 will take longer to build, but it's no more difficult than building the Sierra. The Sierra has more band options and is probably more modifiable for those so inclined. Size-wise, they're about the same.

These are only my opinions. Others may differ. It's certainly possible that my Sierra behaved a little differently than someone else's--they each have their own "personality."

73 de Dave NK0E

Date: Fri, 11 Oct 2002 20:02:04 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-1@lehigh.edu
Cc: glowbugs@piobaire.mines.uidaho.edu
Subject: [137902] [Personals] Mate WTD
Message-ID: <F169H2q6DqaJY4kJSFs00000061@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

SINGLE, HETEROSEXUAL, BLUE FEMALE
Want an electrifying experience?
Amphenol 8-pin female Blue Ribbon

connectors in search of mates.
Possible long term relationship.

Seriously folks, I've got a haram of these and no male connectors to mate with them. I'd like to put them to use. Anyone have some in their junk box?

Thanks.

Brad

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Fri, 11 Oct 2002 16:06:13 -0400
From: "John" <jdorson@worldshare.net>
To: <KD5NWA@mbayona.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [137903] Re: Tuner Schematics
Message-ID: <001d01c27161\$aa84c6f0\$049a8b41@ATHOME>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Cecil get a copy of the October 95 73 Amateur Radio mag. Page 10 has an artical to the 'QRP Delight', I've built 2 of these and they work great.

If you can't find the mag. let me know off the list and I'll copy and mail it to you.

John K2JHU...

----- Original Message -----

From: "KD5NWA" <KD5NWA@mbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, October 11, 2002 12:51 PM
Subject: OT: Tuner Schematics

> Does anyone on this list know where I can find schematics of antenna tuner?
> I'm presenting a program on QRP tuners in our club meeting after work, and
> it just dawned on me that I packed all the literature for the presentation

> and took it to the new house I'm moving to. I have been looking on the Web
> for articles but I have not found schematics on the "T" or "L" tuners and
> time is running out quickly.
>
> Thanks
>
> Cecil
> KD5NWA
>

Date: Fri, 11 Oct 2002 13:43:32 -0700
From: Jeff Grudin <jeff@grudin.net>
To: qrp-l@lehigh.edu
Subject: [137904] Nor' Easter for sale
Message-ID: <000c01c27166\$dd0d6280\$6401a8c0@GRUDIN2>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

I bought one of these kits. They really are beautifully done. I decided I really had some other projects that are more important to me so I am selling the complete kit unopened and ready to go (I did read the instructions). \$50

73 de AC6KW <mailto:jeff@grudin.net>
Jeff Grudin, DVM Web Add: <http://www.grudin.net>

Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Montgomery 23 Hull #072 Norcal QRP * QRP-L * ARS * AR Qrp

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.393 / Virus Database: 223 - Release Date: 9/30/2002

Date: Fri, 11 Oct 2002 14:55:57 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>

To: qrp-1@lehigh.edu
Subject: [137905] Battery Charger Progress
Message-ID: <Pine.LNX.4.44.0210111342260.11427-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well after about 4 hours total reading the National Data Sheets it becomes clear that a charger that will charge up a battery pack up to about 12 volts DC rated voltage is the highest supported by this National chip. If the charger is going to work with all the current battery types including Li-ion, the circuit becomes a lot more complex than one of just Ni-MH.

The chips needed are a 5 volt regulator for the chip Vcc, the LM3647 chip and the LM7301 dual power op-amp chip. A zenor diode makes a 2.5 volt reference voltage used several places. There are 2 transistors and a couple of FET devices, 20 resistors and 10 capacitors. A power supply, unregulated is made that provides about 20 volts DC maximum at about 1.5 Amps.

Since the chips are Surface Mount I'm going to need a test rig that will let me fan out the 20 pins on the LM3647 so that I can connect the other components. The National Test rig costs over \$100.00 so I want to find a cheaper way if possible...

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Fri, 11 Oct 2002 17:14:18 -0400
From: "AI2Q Alex" <ai2q@adelphia.net>
To: "QRP-L (E-mail)" <qrp-1@lehigh.edu>
Cc: <sigcom@juno.com>
Subject: [137906] Heathkit AT-1 xmtr and AR-3 receiver
Message-ID: <000801c2716b\$29e666c0\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gosh, I saw a Heathkit AT1 (with what looked like an original but defective meter) and Heath AC-1 antenna coupler, along with a Heathkit VF-1 vfo at

last week's Hoss Traders hamfair in Hopkinton, NH. The guy was asking an outrageous \$300! Geesh, I just sold two VF-1 vfos for \$10 each. Still, I'd like to find a decently priced AT-1 and AR-3 receiver to duplicate my Novice station of 1959. Any out there for sale or swap?

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Steve Smith

Sent: Friday, October 11, 2002 1:16 PM

To: Low Power Amateur Radio Discussion

Subject: Re: QRP GlowPlug Project / kit and FT-243 Xtals

Hi Bruce (and group),

Jim and I were referring to the Ameco AC-1, that little 1-lung job, not the AT-1 by Heathkit. But I agree, even the AT-1, being a two-stage rig and more sophisticated than the AC-1, would not be too difficult to duplicate, especially using more modern tubes like the 12BY7 and 5763 (to stay QRP). And yes, AT-1s turn up every once in a while. I think I have 4 of them at the moment, HA!

73.....Steve 'The Scrounger' Smith
WB6TNL Oxnard, CA USA
"Snort Rosin"

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<http://dl.www.juno.com/get/web/>.

Date: Fri, 11 Oct 2002 15:28:19 -0600

From: "P. Ermisch" <ermisch@usa.net>

To: <qrp-l@lehigh.edu>

Subject: [137907] Re: [Apology]

Message-ID: <200210112131.g9BLUWCW011519@rain.CC.Lehigh.EDU>

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

An ancient rule from the USENET days of the internet was to ignore flames, flamers, and trolls to prevent propagating garbage on newgroups and lists. I usually delete over 99% of the content of this list without reading anything more than subject titles but I couldn't resist responding to your apology to give an example of what I think is the best response to poor behavior.

As much as it pains me to see people deservedly or undeservedly maligned on this list, I have kept my mouth shut. The two times I have responded to hostile threads were messages sent to the list administrator/moderator rather than generate any messages into the offending thread. Doing so only makes things worse for everyone on the list no matter how honorable your intentions.

The list admin has never responded back to me when I do this so I'm not sure what his policy is but I only suggest it if you can't get that itch out of your fingers.

Another suggestion is to follow the criteria suggested a few weeks back regarding the appropriateness of your intentions and the content you're considering posting. =

Fred, this message is not addressed to you specifically so I apologize if this comes across the wrong way. I read many of the flaming threads, get upset, laugh at the idiocy of some but I work very hard at 'keeping my powder dry' on this list. Despite deleting almost 100% of the content, I remain subscribed because the little worthwhile content is worth the effort. I suggest to others offended and considering leaving to use address and subject filters to limit exposure. I already have a couple of people filtered out but that's telling too much already :) If you're getting the digest version, I don't

know what you can do.

Paul KB0LUR

Fred Ringwald <fred@ringwald.org> wrote:

> =

> To everyone who reads QRP-L,

> =

> Please allow me to apologize for propagating the very subject line I
> was criticizing in this morning's email. I realized what I had
> forgotten to "clean it up" *after* I sent the email, and regret that
> there was no way to retrieve it.

> =

> I want to thank the many folks who sent me email agreeing with
> my point. My intention is not to cause division, but plead for a
> civil discourse. I also want to thank those who pointed out my
> error. Without it I may not have recognized the need for this apology.=

> =

> I would like to encourage disagreements, and constructive dialogue
> expressing our varying viewpoints. That is how we learn.

> =

> Nonetheless, my hypocrisy this morning was inappropriate, and I
> apologize to everyone for the offensive email.

> =

> 73s,

> =

> Fred Ringwald, AB0AE

> fred@ringwald.org

Date: Fri, 11 Oct 2002 16:31:06 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu
Subject: [137908] R-M/20 Changing Xmit Freq
Message-ID: <3.0.2.32.20021011163106.007b0510@mail.9plus.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

R-Mers,

On my R-M/20, the as-built transmit frequency is near 14.058 MHz. This, of course, the FISTS Club calling frequency. Using capacitors and inductors in series with the Y2 crystal, you can easily raise or lower the operating frequency.

With a supply voltage of 13.3 V DC, here are some examples:

Capacitors 100 pF to 10 pF in 8 steps -- 14.059.9 MHz to 14.066.2 MHz.

Inductors 1 uH to 10 uH in 4 steps -- 14.057.7 MHz to 14.046.2 MHz.

A slight drift, less than 25 Hz, was noted at power-on and stabilized within a few minutes. Relative frequency was determined by zero beating the R-M frequency with my FT-847 using the 25 Hz filter.

Details:

Capacitors

Capacitors are 5% np0(COG) axial monolithic ceramic
Marked [measured] values in pF

Transmit frequencies

100	[99.9]	--	14. 059.9 MHz
82	[78.8]	--	14.060.12
68	[69.4]	--	14.060.26
56	[58.6]	--	14060.6
47	[46.6]	--	14060.92
33	[32.6]	--	14061.73
22	[22.4]	--	14062.9
10	[9.98]	--	14066.2

Frequency change is consistent with the R-M/40 test results. A slow change for the higher values and a more rapid change with the smaller values. Power drops off with values less than 10 pF.

Inductors

Inductors are 5% epoxy coated chokes -- same type as supplied with the kits
Marked [measured] values in uH

Transmit frequencies

1	[1.04]	--	14.057.7 MHz
---	--------	----	--------------

2.2 [2.33] -- 14.056.6
4.7 [5.1] -- 14053.8
10 [10.34] -- 14.046.2

Again, frequency change is consistent with the R-M/40 test results. A slow change for the smaller values and a more rapid change with the larger values. Power drops off with values greater than 10 uH.

The capacitors and Inductors were soldered directly to the crystal leads. Use care not to overheat the crystals if you do this. As mentioned in my other notes about R-M experiments, machined DIP pins are used as crystal sockets.

A ground for the crystals was fashioned from the small end of a paper clip. A flexible tether wire is soldered to the clip and then to a ground on the board.

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Fri, 11 Oct 2002 14:24:56 -0700
From: "Richard Johnson" <richard_johnson@credence.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137909] Pull up RFC
Message-ID: <3DA741A8.C14E41BD@credence.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang:

I am wondering about the RFC and/or small value resistors used as collector pull-ups or on the power pins a ICs.

Now sometimes 10 uH and others 100 uH.
Sometimes 10 ohms or 47, 100, 150.
Sometimes both but almost always bypassed at the end away from Vcc connection.

I assume there is some magic combination for sub-circuit to sub-circuit isolation and maybe gain peaking however i have not read any uniform theory on the subject.

Any insight from the vast knowledge of the list to this lowly wana-be ham.

cheers,
rich

Date: Fri, 11 Oct 2002 15:09:32 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: elecraft@mailman.qth.net, QRP-L <qrp-l@lehigh.edu>, GQRP <gqrp@groups1.vip.scd.yahoo.com>
Subject: [137910] Elecraft KAT100 ATU Released
Message-ID: <3DA74C1C.8CEDC155@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

We have just added the new KAT100 150W external ATU (also QRP ready) for the K2 and K2/100 to our web page and order forms at <http://www.elecraft.com>

The direct link for the KAT100 page is:
http://www.elecraft.com/kat100/kat100_page.htm

We will be introducing the KAT100 for sale next week at the Pacificon ARRL convention in Concord, CA, Oct. 19th.

The KAT100 is an ideal match for the K2/100, and will also work with the K2. It can easily handle 150 watts, and its 10 LEDs accurately monitor SWR during transmit. Like the KAT2, the KAT100 includes two antenna jacks--it's like having two ATUs in one.

Because of its tight integration with the K2, the KAT100 offers many advantages over other external auto-tuners:

Low profile (1.2" high) design -- same footprint as the K2.

L/C settings stored in EEPROM--instant recall on band or antenna change

Matches 10:1 SWR loads.

Automatic power reduction when TUNE is pressed

Dual-range bridge allows tune-up with as little as 0.2 watts

Direct display of power, SWR, and other data on the K2's LCD

Interfaces directly with the K2 via the AUX port (DB9 + 'Y' cable on KPA100 or KI02).

Same K2 control and menu features as the KAT2 QRP tuner.

The low-profile KAT100-1 (\$239) can be placed beneath the K2, while the full-height KAT100-2 (\$219) is intended for side-by-side arrangement with the K2 and mounts inside the EC-2 project enclosure. The KAT100-2 includes front and rear panels that match our EC2. (EC2 sold separately.)

Pre-wound toroids for the KAT100 kit are also available from Mychael, AA3WF. There is a link on our KAT100 page to his order form.

73, Eric WA6HHQ

Date: Fri, 11 Oct 2002 16:35:11 -0600
From: na5n@zianet.com
To: mulline@tycoelectronics.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [137911] Re: RM-20 power out without steroids
Message-ID: <20021011223512.3657.qmail@zianet.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mullin, Edward J. writes:

> for what it's worth, my RM20 is putting out about 0.455 whats with the
> 2n3053 mod. Not much power gained there.

For what it's worth, I'm getting about 7W out of my RM-40 with the Class-D/E amplifier mod I added. One IC, an emitter follower, and one mosfet. In fact, I had to "pad down" the stock RM-40 output to not overdrive the PA. Details at PacifiCon next saturday, plus I'll bring it along (if I get it past airport security -hi).

Been busy and traveling for the observatory lately, so have a ton of email and some book orders to catch up on over the weekend. Looking forward to seeing everyone in Concord, CA next weekend. We'll be there friday night for the Rock Mite building contest thingie as well, teaming up with Rod N0RC, Jerry W0CH and Jan N0QT. Gee, just realized I'm the only "5" in that group :-)

72, Paul NA5N

PS - Trying to clear out 2 weeks of QRP-L today has been disgusting ...

not only in the quantity (1600 posts) but the quality. Yuck! And that's with a couple of the notorious ones filtered out. Let's have a group hug and get on with some good ole QRP.

Date: Fri, 11 Oct 2002 16:41:31 -0700
From: Steve Smith <sigcom@juno.com>
To: qrp-l@lehigh.edu
Subject: [137912] CQ B00?
Message-ID: <20021011.164131.-415379.1.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Will there be a Zombie Shuffle this year?

73.....Steve 'The Scrounger' Smith
WB6TNL Oxnard, CA USA
"Snort Rosin"

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Date: Fri, 11 Oct 2002 19:44:26 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137913] Re: Half-Wave Tuning Measurements
Message-ID: <3DA7625A.FDAFF039@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

KD5NWA wrote:

> many warn that the "Super T" tuner can be all too easily be mistuned
> to give you a low SWR but low efficiency.

While I was looking for the appropriate procedure of tuning a T-network,
I found this article on the ARRL site:

<http://www.arrl.org/members-only/tis/info/pdf/9501046.pdf>

"Getting the Most Out of Your T-Network Antenna Tuner", QST, January 1995

This article not only describes the correct tuning procedure but also talks about losses in a T-network, how it works, etc.

73,
--Alex (KR1ST)

Date: Fri, 11 Oct 2002 19:48:11 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137914] Re: Mother Earth, Wind and Wires
Message-ID: <3DA7633B.43F45B41@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just remembered that someone on here wrote this past week or so to put a 100k resistor from the random wire input to ground so that the static buildup can leak to ground. I just did that, and it doesn't seem to affect the SWR. To whoever wrote it, Thank You!

73,
--Alex (KR1ST)

Alex wrote:

> Btw, how dangerous is it to use wires that are moving in the wind? I
> mean in terms of static buildup. Am I better off waiting until the wires
> hang still?
>
> Thanks and 73,
> --Alex (KR1ST)

Date: Fri, 11 Oct 2002 20:14:51 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137915] Re: Elecrafft KAT100 ATU Released
Message-ID: <3DA7697B.7F4816F0@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Will a KAT100-2 and a KPA100 both live in an EC-2?

That would leave the K2/KAT2 together for field excursions...and the KPA100/Kat100-2 in an enclosure for use in the shack.

Paul K4FB

Eric Swartz WA6HHQ - Elecraft wrote:

>
> The low-profile KAT100-1 (\$239) can be placed beneath the K2, while the
> full-height KAT100-2 (\$219) is intended for side-by-side arrangement with
> the K2 and mounts inside the EC-2 project enclosure. The KAT100-2 includes
> front and rear panels that match our EC2. (EC2 sold separately.)
>
>

Date: Fri, 11 Oct 2002 20:31:25 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [137916] Re: Battery Charger Progress
Message-ID: <000f01c27186\$b985b860\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Since the chips are Surface Mount I'm going to need a test rig
> that will let me fan out the 20 pins on the LM3647 so that I can connect
> the other components. The National Test rig costs over \$100.00 so I want
> to find a cheaper way if possible...

DigiKey

"SurfBoards"

Date: Fri, 11 Oct 2002 20:48:36 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@lehigh.edu
Subject: [137917] End fed half wave (EFHW) and tuner
Message-ID: <20021011.204843.3630.5.kc8aon@juno.com>

Gang,

As you know, I spent the day with a friend yesterday at his cabin, and because of the rain was unable to get my dipole up. Well, the rest of the day was spent sharing his existing G5RV. He operates QRP ssb with an old Yaesu FT-7, and I operate QRP cw with my SW-40+. We each had a tuner with us, so we took turns using the antenna so we could both operate. So as I stated earlier, I decided to look into using an end fed half wave wire as an easy up (only one support needed) antenna. Well, today I sat down and built a tuner for it. The tuner is the parallel resonant type, with a resistive swr bridge with LED indicator. And it all fits neatly inside an Altoids tin ! I also have the wires all cut for the 1/2 wave radiator and 1/4 wave counterpoise, and hope to give it all a try on the air tomorrow. If I do, I'll post the results here. By the way, the tuner started as a 40 meter only deal, but with a 5.7K resistor on the output, and using my MFJ-204B antenna bridge, I can tune to 50 ohms from 6.5 Mhz to 10.5 Mhz. Looks like I need to get an SW- 30+ too ! If I get it on the air tomorrow, I be calling CQ around 7.040 plus or minus QRM....

72/73 DE: [K] [C] [8] [A] [O] [N]

Rick McKee

Willow Wood, Ohio

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QRP-L #2112, FPqrp #33, AR QRP #269

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Date: Fri, 11 Oct 2002 20:15:19 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@lehigh.edu>
Subject: [137918] Re: Half-Wave Tuning Measurements
Message-ID: <000301c2718c\$d54d2c80\$7d36a6d8@Main>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Denny,

I use the parallel tuned circuit with my end-fed halfwaves all of the time. I have found that with a proper turns ratio I can obtain the best efficiency with a 5000 ohm resistive load which matches well to a halwave wire. If you change the length of your antenna to bring the impedance down you will have more and more need of a counterpoise or ground for the return current. You may want to decrease the number of turns on your primary and see if you can bring yours up to 5k. I have an example circuit on the following Web page:

<http://www.qsl.net/aa5tb/coupler.html>

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Fri, 11 Oct 2002 20:27:47 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@lehigh.edu>
Subject: [137919] Re: OT: Tuner Schematics
Message-ID: <000301c2718e\$93844890\$7d36a6d8@Main>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Cecil,

I know that there are probably plenty of antenna tuner schematics around but I have a few specialized examples here:

<http://www.qsl.net/aa5tb/tuner.html>

<http://www.qsl.net/aa5tb/coupler.html>

<http://www.qsl.net/aa5tb/halfwave.html>

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Fri, 11 Oct 2002 21:35:15 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [137920] 'Rocky' scores again...on the road...thanks to W0CH
Message-ID: <F274mHf7FrXUwQ3I9W400003206@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

On my drive home today, about a mile from the plant and in downtown Salem (City), VA, called CQ with the Rock-Mite-20 at 250 mW to the Hustler, and was answered by Dave, W0CH, in Seneca, MO. At the beginning of our QSO, Dave & I were 804 miles apart and at the end, near Ironto, VA on I-81 south, we were 792 miles apart (mileage, as the crow flies, courtesy the 'how far is it' website):

<http://www.indo.com/distance/>

Dave's K2 to the extended double zepp sounded great.

Near the end of our QSO, I heard this very strange, Shrieking sound from the Radio Shack 'amplified speaker', followed immediately by Beethoven's 'Für Elise'...my cell-phone lay inches from 'Rocky' and there was an incoming call, inviting me for a home-cooked meal at my folks...Cube steak, mashed potatoes, peas etc...I accepted!

The cell-phone's transmitter was wreaking havoc with 'Rocky's' rcvr.

Oh yeah, truckers and very close ambc stns come in real good too :)

Anyway, thanks Dave for the FB QRP QSO and for the nice email this evening.

de N4QA/m...cw at 70 mph... dit dit

73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

Join the world's largest e-mail service with MSN Hotmail.
<http://www.hotmail.com>

Date: Fri, 11 Oct 2002 21:36:35 -0400
From: "Alan Fryer" <N3BJ@hotmail.com>
To: <qrp-1@lehigh.edu>
Subject: [137921] Wanted: Small Tube CW Transmitters
Message-ID: <OE48sqT6WD6cfbRYjQl000028d8@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wonder if any list member has a surplus tube CW transmitter, such as an Eico 723, Heath DX-20, DX-35, DX-40, Johnson Adventurer, Ameco TX-86, homebrew, etc. Problem or parts rigs OK. Please let me know what you have that is surplus to your needs.

Alan, N3BJ
Bent Mountain, VA

Date: Fri, 11 Oct 2002 19:03:35 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: ermisch@usa.net, QRP-1 <qrp-1@lehigh.edu>
Subject: [137922] Re: [Apology]
Message-ID: <20021012020335.21621.qmail@web10008.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Paul.

While it was rather good of you to stoop to sprinkle a little bit of the rich wisdom you've accreted, one wonders at how, or even why, you would even perceive the doings of us motes from the towering heights you inhabit.

cheers,

Lloyd, K3ESE

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Date: Fri, 11 Oct 2002 21:08:04 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@lehigh.edu>
Subject: [137923] Re: 1/2 Wave end fed wire
Message-ID: <000301c27194\$3445e6d0\$7d36a6d8@Main>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Rick,

You asked...

"1: What effect does the absence of the counterpoise or ground have on the efficiency of the end fed 1/2 wave ?"

None unless you can construct a conductive ground plane large enough to intercept ground induced currents out about a halfwave from the antenna (if vertical) or large enough to provide a reflective surface in the far field (unlikely). A counterpoise is not needed to intercept return currents as in the case of a 1/4 wavelength vertical.

"2: Since the end fed 1/2 wave has an equal distribution of current and voltage, is the counterpoise or ground really needed ?"

Nope. The idea often heard of "needing something to push off of" is unfounded. The antenna is voltage fed, not current fed. Study the old End-Fed Zepp antennas. They were a halfwave length long and fed at the end with open wire line. There was obviously an imbalance since one end of the line is left hanging but due to the high impedances common mode current wasn't usually a problem. Back then they simply used "transmission line transformers" rather than a "lumped transformer" made from a parallel tuned circuit. How many End-Fed Zepp designs can you find with a "counterpoise" hanging off of the other side of the transmission line? How many J-Poles for 2m do you see with a counterpoise? J-Poles are end-fed halfwave antennas that use a transmission line transformer.

"3: Has anyone on the list ever modeled the end fed 1/2 wave both with and without the counterpoise or ground ? If so, what were the findings ?"

It would be modeled as a halfwave dipole since that is what it is electrically. Dipoles do not need another 1/4 wavelength of wire at the end to make them work but I'm sure someone can model it that way if they want.

"4: How did you like the end fed 1/2 wave as compared to other more common antennas ?"

They are among my favorite antennas for portable use. The performance is the same as a dipole in the same orientation.

Some users report that they needed to add a counterpoise to keep excessive currents off of the feedline. I have yet to find this a problem and I suspect that their antennas were not as close to an electrical halfwave length as they may have thought. Maybe they were detuned due to the way they were supported or something. In reality, one will never have things perfect and capacitive coupling back to the feedline may cause some common mode current to flow but I have always found this to be very small once my coupling circuit was optimized. Granted, at QRP levels even the desired currents are low ;-)

How can you tell if there is common mode current on the feedline? Well, if there is a problem then moving the feedline about will cause the VSWR to change for one thing and tuning will get erratic. If your rig is nearby it may go nuts. But then again your rig may go nuts anyway if it is in the near field of the antenna. A field strength meter can also give you some clues.

Bottom line is that the antenna looks like a halfwave dipole, acts like a halfwave dipole, and IS a halfwave dipole. It is just voltage fed at the end rather than current fed in the center. If it makes one feel better to add a counterpoise then by all means do it. An earth ground for static dissipation purposes is a different story and for home installations or for your 160m field antenna I would recommend it.

I hope that this perspective is helpful although it may have been the information on my Web page that created the confusion to begin with ;-)

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Fri, 11 Oct 2002 20:56:01 -0700
From: Jeff Grudin <grudin@vdbbs.com>
To: qrp-1@lehigh.edu
Subject: [137924] Nor' Easter Sold
Message-ID: <000201c271a3\$4864f8e0\$0a9bae40@grudin>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

The Nor' Easter has been sold. Thanks for all the replies.

73 de AC6KW <mailto:jeff@grudin.net>
Jeff Grudin, DVM Web Add: <http://www.grudin.net>

Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Montgomery 23 Hull #072 Norcal QRP * QRP-L * ARS * AR Qrp

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.393 / Virus Database: 223 - Release Date: 9/30/2002

Date: Fri, 11 Oct 2002 22:45:47 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@lehigh.edu>
Subject: [137925] Fox - Winter Fox Hunt Teams.
Message-ID: <Pine.LNX.4.33.0210092059060.8462-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...here's the Teams lineup so far...

Burbank Wrecking Crew Cheeseheads

Trevor - KG6CYN
Michael - K6MMC
Todd - AG0T

NE-TX Tornados p-Shooters

Chuck - W5USJ
Bill - K5JHP
Don - K5DW
Doc - W5TB
George - W5YR

Raiders of the Lost RF

Swamp Rats

Dan - VE6
Earl - VA6RF
Fred - VE3FAL
Robert - VE6JAZ
Bruce - VE5RC

King Dawgs

Cajun Thunder

Lloyd - K3ESE
Mark - K5MGJ
John - K8HJ
Ralph - KD1R
Joe - W2RBA

Wayne - K5E0A
Jim - N5IB
Vern - AA50
Wayne - N5YFC
Tom - AC5JH

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sat, 12 Oct 2002 01:11:53 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [137926] Re: Age/Years a Ham
Message-ID: <20021011234314.U15984-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I will begin with my addition to the data base. 60/40/36 AGE/HAM/QRP

I would have made it 60/40/36, but I must confess, I did operate QRO
for U.S.A.F. (Their Equipment). I did have a QRO Amplifier Ten-Tec 405 for

the Argonaut 509/515 But Never used it. It was part of a Collectors set that I purchased and held for a few years.

I spent quite a bit of time yesterday going thru the past four or five QRP-L Digests.

I was gathering data for a practice Spreadsheet program, only to see that Rob, W0JRM had been assigned the task of researching the archives and reporting back on the data.

I have not had a chance to take a look at the website and see how it turned out.

Just for the heck of it, here is what I came up with via pencil and paper.

I had 125 data entries. Actually had to reduce that as some did not give their stats, just comments on the thread.

Also I adjusted for the fact that four (4) gave data, but do not show their Callsigns in their email or headers. Also one gave age but not license year data.

The AGE column = $6250/121$ or 51.652892 Average Age of Individuals represented.

The Years HAM column= $3646/120$ or 30.383333 Average Years a Ham Operator.

Then I did an INDEX, which is AGE + Years a Ham. The Range was 148 down to 21. That would give an average of $148 + 21 = 169/2 = 84.5$ IHY or adding $51.65 + 30.38 = 82$ IHY

I have not had time to play with this on the spreadsheet yet, but I do have the data for five pages of you lads.

In case you are wondering where you fall on the list, here a few Samples:

IHY	Age/Ham	Callsign	Name/Nickname
148	81/67	W0AV	George Franklin (Top IHY List)
147	82/65	W0LK	Robert Seymour
146	84/62	NQ7X	Floyd Smithberg (Oldest, but late start? :^)
144	79/65	W5HIR	"Foxy" J. Fox
130	73/57	W5YR	George (Yellow Rose of TX)
124	71/53	KH6B	Dean Hiloarc
123	71/52	K6AEC	Bob Parks
120	68/52	K5DI	Karl F. Larson (LINUX Questions?)
118	65/53	XE2EKK	"Sparky" Lou
117	71/46	W4STX	William K. Penhallegon

116	71/45	K3CHP	Joseph Mikuckis (The Delaware QRP KID)
116	68/48		Frank Emens
115	68/47	W5USJ	Chuck Carpenter
114	66/48	K4AHK	Bill Harding (NorVA QRP)
114	63/51	K2JHU	John Dorsen
113	63/50	N7XY	Bob Nielson
112	62/50	W6TOY	Bruce Muscolino
111	62/49	W3CDE	Jerry L.
111	62/49	KB9YIG	Tony Parks
110	65/45	N7DW	Russ Dow
110	62/48	K5OI	Tim Pettibone
108	61/47	KD7S	Bill Jones
106	60/46	K2ULR	Ray Sills
105	65/40	VE5RC/VE5QRP	Bruce Rattray
104	59/45	K40AH	Gary Barrell
104	59/45	K5JS	John Stevens
104	59/45	K8DD	Hank Kohl (All Figures are Rounded Up :^}
103	60/43	N5ED	Edgar R. Guillot
102	60/42	VE3EQP	Mike Pupeza
102	58/44	W2AGN	John L. Sielke
101	57/44	N0TU	Steve
101	58/43	N1ZSW	Ronald A. Pfeiffer
101	58/43	K8TRF	Dave Benham
100	57/43	AI2Q	Alex
100	60/40	WA6DTX	"DTX" Gary
100	60/40	K3TKS	George Gingell (QRPP Dx Tu) (Mr. QQ)

99->> Whipper Snappers :^}

25	20/05	W0JRM	Rob Matherly (almost youngest member of qrp-1)
21	18/03	AC7CF	Andrew Madsen (Youngest member of qrp-1 ?)

Gee that was fun, Not as much as melting solder or building antennas.

OTOH it is a lot safer playing radios (QRP) than getting GAS these days.

I guess you all have seen the News from Washington Metro Area this week.

I begin to think it is a new form of Terrorism...

I did not leave anyone out intentionally, nor is this list any where near complete. It is just a small sample from the recent long thread.

An interesting diversion, but at least ham radio related.

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, & I.Q.S.F. Donations Accepted.

RU-QRP? Club Representative, U.S. Treasurer & Founder of I.Q.S.F.

Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Sat, 12 Oct 2002 08:23:47 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: richard_johnson@credence.com, qrp-l@lehigh.edu
Subject: [137927] Re: Pull up RFC
Message-ID: <F103Iv6EybfqfAj81EYt0000020f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Richard Johnson" <richard_johnson@credence.com>
>Reply-To: richard_johnson@credence.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Pull up RFC
>Date: Fri, 11 Oct 2002 14:24:56 -0700
>
>Gang:
>
>I am wondering about the RFC and/or small value resistors used as
>collector pull-ups or on the power pins a ICs.

>
>Now sometimes 10 uH and others 100 uH.
>Sometimes 10 ohms or 47, 100, 150.
>Sometimes both but almost always bypassed at the end away from Vcc
>connection.
>
>I assume there is some magic combination for sub-circuit to sub-circuit
>isolation and maybe gain peaking however i have not read any uniform
>theory on the subject.
>

It's called decoupling.

If you think of it as a low-pass filter, things should become clearer. I don't think many amateurs actually design their decoupling circuits, professional designers probably do.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790

Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Sat, 12 Oct 2002 06:08:04 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu, QRPP-I@yahoogroups.com
Subject: [137928] R-M/20 Beacon 14062.9 kHz
Message-ID: <3.0.2.32.20021012060804.006aed44@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks,

Running an R-M/20 in beacon mode for a while this morning. Freq is about 14.062.9 MHz. Looking for signal reports especially for signal and keying quality.

About 400 mW to a Butternut. Hope it get through any digital sigs that might be around. Appreciate signal reports.

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Sat, 12 Oct 2002 05:41:45 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Rick McKee <kc8aon@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137929] Re: End fed half wave (EFHW) and tuner
Message-ID: <Pine.LNX.4.44.0210120537370.1693-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Rick, I tried an end fed 44 foot wire and used 300 ohm ribbon as the feedline and fed it as a balanced line. It tuned up fine and worked. But it wasn't an end fed antenna.

It was an inverted L antenna and the 300 ohm ribbon was acting like a single wire.

Good luck!

On Fri, 11 Oct 2002, Rick McKee wrote:

> Gang,
>
> As you know, I spent the day with a friend yesterday at his cabin, and
> because of the rain was unable to get my dipole up. Well, the rest of

> inside an Altoids tin ! I also have the wires all cut for the 1/2 wave
> radiator and 1/4 wave counterpoise, and hope to give it all a try on the
> air tomorrow. If I do, I'll post the results here. By the way, the
> tuner started as a 40 meter only deal, but with a 5.7K resistor on the
> output, and using my MFJ-204B antenna bridge, I can tune to 50 ohms from
> 6.5 Mhz to 10.5 Mhz. Looks like I need to get an SW- 30+ too ! If I get
> it on the air tomorrow, I be calling CQ around 7.040 plus or minus
> QRM....
>
> 72/73 DE: [K] [C] [8] [A] [O] [N]
> Rick McKee
> Willow Wood, Ohio
> Power is for punks ! QRP is for the confident !

> QRP-L #2112, FPqrp #33, AR QRP #269
>
>
>
> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/web/>.
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sat, 12 Oct 2002 08:15:23 -0400
From: Joseph Mikuckis <k3chp@erols.com>
To: QRP-L Mailing List <qrp-l@lehigh.edu>
Subject: [137930] Coax Advice
Message-ID: <3DA8125B.D68B1F0C@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can anyone recommend a good 50-ohm coaxial cable which is suitable to be buried underground?

Joe, K3CHP
Frederica, DE

Date: Sat, 12 Oct 2002 08:53:02 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [137931] Copying W1AW w/RM-20...or...gee, that 12 kHz tone is kinda high!
Message-ID: <F130knLcRYm3ZurZC7200019996@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Forgot to mention that, near the end of my commute home, yesterday, I was copying W1AW's code practice transmission of 14047.5 kHz, eh, more or less on my mobile 'Rocky'. The approximately 12 kHz pitch was a real strain to copy and 1AW's sigs had to be very strong to have been heard at all...I'm

sure that you RM-40 jocks must have heard W1AW up on 7047.5 at some time...only about a 7 kHz tone <g>, give or take your oscillator xtal's accuracy and depending on which freq you're toggled to. You know, the ol' between-the-ears filter surprises me sometimes...
But, talk about a mind-expanding experience... whew!

73.

Bill, N4QA

<http://www.qsl.net/n4qa/>

Join the world s largest e-mail service with MSN Hotmail.
<http://www.hotmail.com>

Date: Sat, 12 Oct 2002 09:00:49 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@lehigh.edu>
Subject: [137932] Re: Coax Advice
Message-ID: <000301c271f7\$c593be10\$bf36a6d8@Main>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Joe,

A coaxial cable that is suitable to be buried underground is RG-213. It is much like RG-8 but has a non-contaminating outer jacket. I have 100 feet of it directly buried and going to my SGC SG-237 autotuner. I measured the loss at 30 MHz to be 1 dB and since the feedline is always operated in a matched condition this is the worst case loss. I purchased mine from CableXperts.

73,

Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Sat, 12 Oct 2002 09:09:12 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>

To: "QRP-L Distribute" <qrp-l@lehigh.edu>
Subject: [137933] Re: 'Rocky' scores again...on the road...thanks to W0CH
Message-ID: <000301c271f8\$f2bf8120\$bf36a6d8@Main>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

HI Bill,

Congratulations on the fine mobile QSO! I was wondering... Do you have much problem with ignition noise or alternator whine? I was afraid that without any filtering and a wide receiver bandwidth that this might be unbareable. I've tried some of the MFJ rigs mobile before and they were hopeless. They mostly had problems with the "unclean" DC.

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Sat, 12 Oct 2002 09:25:41 -0500
From: "Brian" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "Pigs" <fpqrp-l@mpna.com>
Subject: [137934] Worked all States 2002
Message-ID: <000701c271fb\$3f1f2190\$9d682bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

Last night I worked N1VS in CT, for state number 43 this year.

I still need the following:

Montana
Hawaii
Alaska
Mississippi
Kansas
New Mexico
Vermont

The 2002 WAS is multiband here at the KB9BVN QTH.

Anyone wanna sched this weekend? I was listening to 20m a few mins ago and it appears to be smothered in a large wool blanket right now.

I have the K1 and the Rockmite 40m connected now.

73 de KB9BVN

```
=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====
```

```
-----
Date: Sat, 12 Oct 2002 10:29:16 -0400 (EDT)
From: Chris Cartwright <ccart@phideaux.com>
To: Joseph Mikuckis <k3chp@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [137935] Re: Coax Advice
Message-ID: <Pine.LNX.4.33.0210120926570.14116-1000000@dns.phideaux.com.>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
```

On Sat, 12 Oct 2002, Joseph Mikuckis wrote:

> Can anyone recommend a good 50-ohm coaxial cable which is suitable to be
> buried underground?

I've got some RG-8 from the wireman that has "direct burial" printed on the jacket. Of course it's not buried! I did get 300' of 75 ohm CATV line for free, that is buried, and after almost a year, so far so good. At that price I can afford to redo it when it degrades.

```
-- Chris Cartwright,   Unix Administrator |      ccart@phideaux.com      --
-- N3XRV      ARRL-VE   Norcal Zombie #163 |      Oxford, PA 19363 FM29as  --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --
```

Date: Sat, 12 Oct 2002 09:36:44 -0500
From: "Michael Melland" <w9wis@charter.net>
To: <k3chp@erols.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [137936] Re: Coax Advice
Message-ID: <001201c271fc\$c9c93820\$3f20be42@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Joe,

I've tried many types..... and settled on RG-213 for quite a while.

That is until finding Davis RF "BuryFlex". It's like RG-214 with the foil and braid shielding. It has a "real" direct bury jacket (polyethylene) and very low attenuation..... about like foam RG-8. BuryFlex is flexible and the same size as RG-213.... it's tough jacket all but eliminated my yearly chore of replacement of coax due to rodent damage (they love to chew the damn PVC jacket on std RG-213). Davis mainly provides coax etc. to commercial buyers but the owner Steve Davis's is a ham and goes out of his way to make the products available at attractive prices to other amateurs.

This is of course probably not for a portable station..... too bulky and heavy. But carries other products too.... have a look:
<http://www.davisrf.com/>

Mike, W9WIS

Date: Sat, 12 Oct 2002 10:50:30 -0400
From: "Terres Family" <terresfm@ncia.net>
To: <terresfm@ncia.net>
Cc: <qrp-1@lehigh.edu>
Subject: [137937] RM-20 power out with & without steroids
Message-ID: <000001c271fe\$b6c87ea0\$4482f3ce@amdxp2100>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

(best viewed with 'Plain Text')

Bill Jones "RockMite on steroids" mod was done with a 40 meter rig.

These are the results reported with a RM-20:

	Stock 2N2222 -----	On "steroids" (2N3053) -----
k7Qo	150 mw	
k4bx	300 mw @ 13V	
aa7eq	350 mw	550 mw
w5usj	400 mw @ 13.3V	
n0rc	~400-450 mw @ 13.8V	
Ed Mullin		455 mw
n4eo		500 mw @ 12.4V
aa1of		~600 mw @ ~12V

note Bill Jones wrote "The reason I substituted the 2N3053 in the Rock Mite with the 2N2222 was because the 2N3053 has a higher power dissipation. I felt safe decreasing the size of the emitter resistor in order to get more power because the heftier transistor could handle it. The gain of the 2N3053 is actually somewhat less than the 2N2222 it's just that it can handle more heat. I have no doubt you could get a solid 1-watt out of a 2N2222 by decreasing the emitter resistor but it would probably go poof pretty soon."

72
jerry aa1of

Date: Sat, 12 Oct 2002 11:27:16 -0500
From: "Jay Henson" <aj4ay@worldnet.att.net>
To: "QRPL" <qrp-l@lehigh.edu>
Subject: [137938] BIG TIME (a little OT)

Message-ID: <001101c2720c\$3b2d6540\$8971560c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

All,

It would seem that Mobile has really hit the big TIME, literally.

I was just up at Wal-Mart and they have a pretty good stock of the Oregon Scientific atomic clocks (remember that thread) at \$12.96 each. In just reading the advertisement propoganda on the side of the box, what sets this one apart from all others that I have seen is that you can have an offset of +/- 9 hours. I'm not sure EXACTLY what that means but I would gather that I could set the time on the clock at CST+5 hours and display UTC time. This is the ONLY atomic clock that I have seen that will display any time other than EST/CST/MST/PST. Any of you owners of this clock agree with that assessment?

Also, at Sam's other store, there is an assortment of large LCD display atomic clocks ranging in price from about \$14 to about \$28. These appear to be fairly nice office type wall clocks that can be read from several feet away. Again, they will only let you display the local times zones here in the states.

As always, the usual disclaimers, etc., yada yada yada apply. YMMV.

My best to all!

See you on the radio.

Jay

AJ4AY Mobile, AL

FISTS #7917 ARCI #8131 SOC#220 FP# - 115

Date: Sat, 12 Oct 2002 12:30:48 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [137939] New GDO...
Message-ID: <5.1.1.6.2.20021012122624.0208d488@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

A 'new' Heathkit GDO came in today. It DEFINITELY ** IS ** a new and

previously unknown (to me) model Heathkit GDO. I have never seen one of the GD-1 series without the minimum of "GD-1" or "GD-1x" where "x" is either A, B, or U (for the European version) and I have all of them to 'prove' it. I didn't have one missing the GD-1 entirely. I suspect it is a VERY early model GD-1. The paint is a little scuffed, but obviously original, and without any way for the "GD-1" to have been removed. Regardless, it is quite an exciting find for me, as a GDO collector.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Sat, 12 Oct 2002 12:52:31 EDT
From: Mercxx@aol.com
To: qrp-l@lehigh.edu
Subject: [137940] Trade/Forsale 38spcl and St. Louis Transmatch
Message-ID: <169.156c4ad7.2ad9ad4f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Good morning,

I have a St Louis QRP Society QRP Transmatch kit, with manual, enclosure, unbuilt and a 38 Spcl kit with manual unbuilt email for details. I would like to trade for other QRP gear already built for 15m, 20m, or 40m. I will also consider offers for cash but would prefer to trade. I just do not have time to build them. Thanks and have a great weekend.

73
Steve
N4TKP

Date: Sat, 12 Oct 2002 12:06:12 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu, QRPp-I@yahoogroups.com
Subject: [137941] R-M/20 Beacon 14062.9 kHz -- QRT 1400z
Message-ID: <3.0.2.32.20021012120612.006bf2dc@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all who QSLd via email.

Stopped beacon mode at 1400z. Reports from the right coast varied from 429 early to 579 later. Probably too early for the left coast. Contest going on now so I'll try it again later. Next time I'll indicate start and stop time too. Thought about that as I was driving back from a VE session... [g]

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Sat, 12 Oct 2002 11:29:36 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@lehigh.edu>
Subject: [137942] rotor question...
Message-ID: <Pine.LNX.4.33.0210121124540.24708-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I picked up an Alliance Model U98 rotor control unit plus a rotor at a flea market this summer...finally got aorund to hooking it up...this is one of those rotors that you turn the control to where you want your antenna to end up pointing and leave it alone while it clicks away...
...the problem is I can turn the control for a full 360 degree turn and the control clicks away for the full circle but the rotor itself only turns a little over 180 degrees...
...any ideas as to the cause of this problem please?...I have checked a few rotor sites but no info so far...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sat, 12 Oct 2002 15:34:14 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power" <qrp-l@lehigh.edu>
Subject: [137943] DC receiver module update
Message-ID: <DAV33BK4MKZBS5Wn565000102ca@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I can supply these modules assembled and tested. Please email me for details.

I've mounted the module on a piece of Eurocard-sized (160 mm by 100 mm) PCB stock, and am about to add the 12V regulator (LM317) and audio output amplifier (TDA7052) modules, if I can find some suitable screws and nuts locally. I might have to order some on Monday.

I'll then add an active audio filter, and input filter for 40 m, and see how it performs. I'll use a signal generator as the local oscillator, initially, and replace it later with an integrated VFO. A direct output from the pre-amp will enable me to also use the receiver with DSP software on my PC, or my ADI EZ-KIT Lite. It'll be interesting to switch between analogue and digital processing on the same signal. I did think of having them in different ears, but the DSP convolution delay would cause problems.

Detailed performance measurements will also be performed in due course.

The web page will be updated as I progress with this project.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Sat, 12 Oct 2002 12:02:15 -0700
From: "John McClain" <digi2@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [137944] OT: Powder Coat your enclosures
Message-ID: <003601c27221\$ea46f040\$6501a8c0@phoenix.speedchoice.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If you want your QRP enclosures and cabinets to have that professional appearance, take a look at the latest Harbor Freight flyer. They have a Powder Coating System onsale for \$59.99. It normally goes for \$99.99. I am very tempted.

John
K7SVV
K2 #2569, SST 20, Rock Mite 20, Nor'Easter

Date: Sat, 12 Oct 2002 12:11:29 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: QRP-L list <qrp-l@lehigh.edu>
Subject: [137945] Rock-Mite BC fix
Message-ID: <011001c27223\$2b4725a0\$6401a8c0@nvhbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

I don't know if this is old new, new news, or what but...

My new Rock-Mite works FB except for AM broadcast bleedthrough. I added the 1K resistor from the junction of D1/D2 to ground (using the holes provided on the new Rev PCB) and it helped a lot but it was still hard to copy a QSO when the talk show on KOH was more interesting than the QSO I was having. HI!

I replaced that 1K resistor with 20 turns on an FT-37-61 core. It seems to have done the trick. CW sigs are loud and clear and I don't hear KOH anymore.

Lou W7dzn
(Please contact me directly as I don't read all of QRP-L every day.)

Date: Sat, 12 Oct 2002 15:22:20 -0400
From: Hank Kohl <k8dd@arrl.net>

To: k3chp@erols.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [137946] Re: Coax Advice
Message-ID: <5.1.0.14.2.20021012152215.024cf028@mail.arenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Cable Xperts RG-213/U Mil-Spec Direct Burial
It is "stiffer" than regular RG-213.

73 Hank K8DD

No connection with Cable Xperts, blah blah, blah,

At 10/12/2002 08:15 AM -0400, Joseph Mikuckis wrote:
>Can anyone recommend a good 50-ohm coaxial cable which is suitable to be
>buried underground?
>
>Joe, K3CHP
>Frederica, DE

*/ Hank Kohl K8DD k8dd@arrl.net
*/ ARRL TS <http://www.qsl.net/k8dd>
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/

If God intended you to be on single sideband, he would have given you only
one nostril.

- Steve, K2PTS

End of QRP-L Digest 2707

